

Title (en)

PROCESS FOR SEED CRYSTAL PREPARATION FOR PHOSPHORIC ACID CRYSTALLIZATION

Publication

EP 0209919 B1 19890719 (EN)

Application

EP 86200718 A 19860425

Priority

US 73196985 A 19850508

Abstract (en)

[origin: EP0209919A1] The present invention relates to the processing of phosphoric acid by crystallization starting with phosphoric acid and adding relatively large amounts of fine, relatively pure seed crystals to acid which has been cooled to supersaturated conditions. Crystallization thereafter proceeds under conditions which substantially favor growth on the seeds which are added and disfavor secondary nucleation. The present invention particularly describes a seed crystal generator for use in the foregoing process in which relatively high purity phosphoric acid, containing 60% to 66% P_2O_5 is cooled to a temperature of at least 5 to 10°C below zero and thereafter nucleated under agitation in a crystallizing vessel of short residence time.

IPC 1-7

C01B 25/234

IPC 8 full level

C01B 25/234 (2006.01)

CPC (source: EP KR US)

C01B 25/18 (2013.01 - KR); **C01B 25/226** (2013.01 - KR); **C01B 25/234** (2013.01 - EP US)

Cited by

CN105366655A; GB2370004A; EP1970349A2

Designated contracting state (EPC)

AT BE FR GB NL SE

DOCDB simple family (publication)

EP 0209919 A1 19870128; EP 0209919 B1 19890719; AT E44719 T1 19890815; BR 8602054 A 19870106; CA 1265315 A 19900206; JP S6230606 A 19870209; KR 860008936 A 19861219; KR 930006692 B1 19930722; MA 20678 A1 19861231; PH 23763 A 19891103; TN SN86069 A1 19900101; US 4657559 A 19870414; ZA 863235 B 19870128

DOCDB simple family (application)

EP 86200718 A 19860425; AT 86200718 T 19860425; BR 8602054 A 19860507; CA 508612 A 19860507; JP 10578586 A 19860508; KR 860003510 A 19860506; MA 20904 A 19860508; PH 33745 A 19860507; TN SN86069 A 19860508; US 73196985 A 19850508; ZA 863235 A 19860430